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CF6-80C2

high-bypass
turbofan engines



63,500 lb thrust class

The CF6-80C2 high-bypass turbofan engine combines a proven core with the latest technical innovations to offer the highest reliability, longest life, and lowest fuel burn in its thrust class.

Technologies from a variety of research and development programs (including the GENx NASA Energy Efficient Engine program) have been incorporated into the CF6-80C2 design, such as advanced cooling techniques to improve overall efficiency; advanced clearance control, and aerodynamic modifications of blades and vanes. CFx technology advances, such as

a low emissions combustor and advanced high pressure turbine, maximize customer value in the 21st century.

The engine entered revenue service in October 1985 and has consistently demonstrated the lowest specific fuel consumption of any large commercial transport engine in its thrust class. Currently certified on 14 widebody aircraft models and with 16 ratings, the CF6-80C2 has received FAA 180-minute Extended Range Operations (ETOPS) approval for A300, A310, 747, and 767 aircraft, offering route structuring flexibility and added economic benefits.

Cf6 engine manual. Cf6-80e1 engine manual. Cf6-80c2 engine manual.

(I) Material incorporated by no reference. United commented that there are two shield configurations timco hpt, no permanence of pēja (p/n) 2787m85p01 and p/n 9315m41p20. FAA is issuing this ad to address the insecure condition about these products. Change in final authority part2. The NPM was requested by an inspection by the manufacturer that revealed the crack of the HPT 1 rotor disc caused by increased stress in the HPT 1 disk rotor phase as a result of Flange-Para-Flange cracking in the timco shield HPT. This advertisement is applicable to the R88DT HPT rotor installed on Turbofan Model CF6-80C2B8F engine because this rotor configuration does not have an affected timco core. These reviews of the respective motor manuals include updated procedures on the HPT Stage 1 rotor and the stage 2 disk maintenance capacity for these model engines with regard to shield inspection findings Trimaco HPT. FAA amends § 39.13 by adding the following new aerodynamics directive: final part of the change 2021-14-11 General Electric Company; Amendment 39-21638; Docket No. FAA-2020-1179; AD-2020-00818-E Identifier Project. Cost Costs Action Work Cost Cost of Pension Cost per product replace HPT shield timco2 work hours - \$ 85 per hour = \$ 170 \$ 209,600 \$ 209,770 replace the HPT Rotor 1 Disco2 working hours - \$ 85 per hour = \$ 170 \$ 209,600 \$ 209,770. Replace the hpt rotor stane 2 disk - \$ 85 per hour = \$ 170 \$ 209,600 \$ 209,770 Authority for this title of rules 49 of the US Code specifies the FAA authority to issue rules on the security security. Dates: This adequate August 27, 2021. This ad requires visual inspection and fluorescent penetrant inspection (FPI) of the Tamico HPT shield and, if cracking is detected, removal Tremico HPT Shield Service, RPT Rotor Phase 1 Disco and HPT Rotor Phase 2 Disco. The condition ,2 oig|Atse od e 1 TPH rotor od soscid sod adamimatnoç of An of ÅAarebil me ratuser airodop,adatart rof of An es ,ytirohtua s'ycneqa eht fo epochs eht liated erom edircsod, smargorp noitaiva ,IV eltitbus .Ecvres Morf KDI 2 Egats Rotor ,Dna ,d 1 riifft tph Evor tph Evor Egnaif tfo ro drawof eht rehtie hguorht gmidnetxe kcarc that FA, siht FO 1|0|g(hpargaraap yb deriuqer noitecpsi yna gnairud)2(,6 to ,eckc tcirtsid sdrats thigfl lacol rotecepsni lapicnirp ruoy of tseuer ruoy dnes, 91.93 rfc 41 htc enrocraa .Eleudo Rotor CPExece .yamidirf hgu ORHT ,M.P 5 DNA, M.A 9 Neewteb Snotairepo TekcoD because nosrep ni Ro ,9711-0202-0af ,o teckod gnihocol dnrof gnihocol dnrof yb Vog. Gnimimaxe ,sneekalper esetn deen thqim laht flarcrca rebrangem eht gynimreto Fo on SAH ycnegaa eht .moc,eg,ww ,etisbew ;moc,eg,eate ,itannicnC ,yaW namiaeN ,1,ynapmcoc cirtcelE larenG tncatno ,elur lanit siht ni deifitnedi noitamrofni ecivres rof ,SESSERDA ,noitecpsi eht fo stuser eht no desab deriuqer eb diuwo laht stnemecalper yrassen yne od stsoc gniwolof eht setamise AAF eht 082,481s07150s0715 = ruoh rep 58S AA suroh-krow 2dleihra lamrhet TPH fo noitecpsi lausiv dna IPF mrofresPsortarepo .S.U no stocCtudory rep tsoCtsoc straPtso robaLnoitcAstsoC detamisE :.DA siht htww ylpmod of stsoc gniwolof eht setamise AAF eht ,enpalria eht of egamed dna ,enigne Eht Of To Clarify Engine Applicability United requested that the FAA remove CF6-80C2B8F model turbofan engines from the applicability of this AD. Request To Update Shop Manual Atlas Air requested that the FAA revise GE CF6-80C2, ESM 72-53-05, High Pressure Turbine (HPT) Rotor Thermal Shield^cAInspection to add the proposed requirement to remove from service the HPT thermal shield, the HPT rotor stage 1 disk, and the HPT rotor stage 2 disk from service if a crack is found, since the thermal shield can be sent to different vendors outside the engine shop. You may email your request to ANE-AD-AMOC@faa.gov. Delta also suggested that the technical data within the Engine Shop Manual (ESM) should be updated to ensure inspection requirements are equivalent across all tasks within the ESM. (f) Compliance Comply with this AD within the compliance times specified, unless already done. The FAA agrees. The FAA is issuing this AD to prevent failure of the HPT rotor stage 1 disk and the HPT rotor stage 2 disk. CF6-80A ESM 72-53-00 describes procedures for the removal of the HPT thermal shield, the HPT rotor stage 1 disk, and the HPT rotor stage 2 disk installed on CF6-80A model turbofan engines. Start List of Subjects L14 of Subjects L14 CFR Part 39 End List of Subjects Accordingly, under the authority delegated to me by the Administrator, the FAA amends 14 CFR part 39 as follows: Start Part 39:6AAARWORTHINESS DIRECTIVES End Part Start Amendment Part1. The FAA disagrees. (c) Applicability This AD applies to General Electric Company (GE) CF6-80A, CF6-80A1, CF6-80A2, CF6-80C2A1, CF6-80C2A2, CF6-80C2A3, CF6-80C2A5, CF6-80C2A8, CF6-80C2B1, CF6-80C2B1F, CF6-80C2B2, CF6-80C2B3F, CF6-80C2B4, CF6-80C2B5F, CF6-80C2B6F, CF6-80C2B7F, CF6-80C2B8F, CF6-80C2D1F, CF6-80C2K1, CF6-80C2K2F, CF6-80C2L1, CF6-80C2L2F, CF6-80C2M1, CF6-80C2M2F, CF6-80C2N1, CF6-80C2N2F, CF6-80C2O1, CF6-80C2O2F, CF6-80C2P1, CF6-80C2P2F, CF6-80C2Q1, CF6-80C2Q2F, CF6-80C2R1, CF6-80C2R2F, CF6-80C2S1, CF6-80C2S2F, CF6-80C2T1, CF6-80C2T2F, CF6-80C2U1, CF6-80C2U2F, CF6-80C2V1, CF6-80C2V2F, CF6-80C2W1, CF6-80C2W2F, CF6-80C2X1, CF6-80C2X2F, CF6-80C2Y1, CF6-80C2Y2F, CF6-80C2Z1, CF6-80C2Z2F, CF6-80C2A1F, CF6-80C2A2F, CF6-80C2A3F, CF6-80C2A5F, CF6-80C2A8F, CF6-80C2B1F, CF6-80C2B2F, CF6-80C2B3F, CF6-80C2B4F, CF6-80C2B5F, CF6-80C2B6F, CF6-80C2B7F, CF6-80C2B8F, CF6-80C2D1F, CF6-80C2K1F, CF6-80C2K2F, CF6-80C2L1F, CF6-80C2L2F, CF6-80C2M1F, CF6-80C2M2F, CF6-80C2N1F, CF6-80C2N2F, CF6-80C2O1F, CF6-80C2O2F, 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